



SEQUENCE LISTING

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OCT 28 2005
TECH CENTER 1600/2900

<110> Zhou, Shibin
Zawel, Leigh
Vogelstein, Bert
Kinzler, Kenneth

<120> Human Fast-1 Gene

<130> 01107.10898

<140> 09/113,309

<141> 1998-07-10

<160> 19

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 1793

<212> DNA

<213> Homo sapiens

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Lys	Pro	Pro	Tyr	Thr	Tyr	Leu	Ala	Met	Ile	Ala	Leu	Val	Ile	Gln	Ala
		35				40						45			
Ala	Pro	Ser	Arg	Arg	Leu	Lys	Leu	Ala	Gln	Ile	Ile	Arg	Gln	Val	Gln
	50				55					60					
Ala	Val	Phe	Pro	Phe	Phe	Arg	Glu	Asp	Tyr	Glu	Gly	Trp	Lys	Asp	Ser
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Ile	Arg	His	Asn	Leu	Ser	Ser	Asn	Arg	Cys	Phe	Arg	Lys	Val	Pro	Lys
			85					90					95		
Asp	Pro	Ala	Lys	Pro	Gln	Ala	Lys	Gly	Asn	Phe	Trp	Ala	Val	Asp	Val
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Ser	Leu	Ile	Pro	Ala	Glu	Ala	Leu	Arg	Leu	Gln	Asn	Thr	Ala	Leu	Cys
	115					120					125				
Arg	Arg	Trp	Gln	Asn	Gly	Gly	Ala	Arg	Gly	Ala	Phe	Ala	Lys	Asp	Leu
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Gly	Pro	Tyr	Val	Leu	His	Gly	Arg	Pro	Tyr	Arg	Pro	Pro	Ser	Pro	Pro
145				150					155					160	
Pro	Pro	Pro	Ser	Glu	Gly	Phe	Ser	Ile	Lys	Ser	Leu	Leu	Gly	Gly	Ser
			165				170						175		
Gly	Glu	Gly	Ala	Pro	Trp	Pro	Gly	Leu	Ala	Pro	Gln	Ser	Ser	Pro	Val
	180					185						190			
Pro	Ala	Gly	Thr	Gly	Asn	Ser	Gly	Glu	Glu	Ala	Val	Pro	Thr	Pro	Pro
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Leu	Pro	Ser	Ser	Glu	Arg	Pro	Leu	Trp	Pro	Leu	Cys	Pro	Leu	Pro	Gly
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Pro	Thr	Arg	Val	Glu	Gly	Glu	Thr	Val	Gln	Gly	Gly	Ala	Ile	Gly	Pro
225			230						235					240	
Ser	Thr	Leu	Ser	Pro	Glu	Pro	Arg	Ala	Trp	Pro	Leu	His	Leu	Leu	Gln
			245				250						255		
Gly	Thr	Ala	Val	Pro	Gly	Gly	Arg	Ser	Ser	Gly	Gly	His	Arg	Ala	Ser
	260				265							270			
Leu	Trp	Gly	Gln	Leu	Pro	Thr	Ser	Tyr	Leu	Pro	Ile	Tyr	Thr	Pro	Asn
	275				280						285				
Val	Val	Met	Pro	Leu	Ala	Pro	Pro	Pro	Thr	Ser	Cys	Pro	Gln	Cys	Pro
	290				295					300					
Ser	Thr	Ser	Pro	Ala	Tyr	Trp	Gly	Val	Ala	Pro	Glu	Thr	Arg	Gly	Pro
305			310						315					320	
Pro	Gly	Leu	Leu	Cys	Asp	Leu	Asp	Ala	Leu	Phe	Gln	Gly	Val	Pro	Pro
			325				330						335		
Asn	Lys	Ser	Ile	Tyr	Asp	Val	Trp	Val	Ser	His	Pro	Arg	Asp	Leu	Ala
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Gly Gly Ser Gly Gly Ala Gly Gly Gly Glu Gln Asn Gly Gln Glu Glu
35 40 45
Lys Trp Cys Glu Lys Ala Val Lys Ser Leu Val Lys Lys Leu Lys Lys
50 55 60
Thr Gly Arg Leu Asp Glu Leu Glu Lys Ala Ile Thr Thr Gln Asn Cys
65 70 75 80
Asn Thr Lys Cys Val Thr Ile Pro Ser Thr Cys Ser Glu Ile Trp Gly
85 90 95
Leu Ser Thr Pro Asn Thr Ile Asp Gln Trp Asp Thr Thr Gly Leu Tyr
100 105 110
Ser Phe Ser Glu Gln Thr Arg Ser Leu Asp Gly Arg Leu Gln Val Ser
115 120 125
His Arg Lys Gly Leu Pro His Val Ile Tyr Cys Arg Leu Trp Arg Trp
130 135 140
Pro Asp Leu His Ser His His Glu Leu Lys Ala Ile Glu Asn Cys Glu
145 150 155 160
Tyr Ala Phe Asn Leu Lys Lys Asp Glu Val Cys Val Asn Pro Tyr His
165 170 175
Tyr Gln Arg Val Glu Thr Pro Val Leu Pro Pro Val Leu Val Pro Arg
180 185 190
His Thr Glu Ile Leu Thr Glu Leu Pro Pro Leu Asp Asp Tyr Thr His
195 200 205
Ser Ile Pro Glu Asn Thr Asn Phe Pro Ala Gly Ile Glu Pro Gln Ser
210 215 220
Asn Tyr Ile Pro Glu Thr Pro Pro Pro Gly Tyr Ile Ser Glu Asp Gly
225 230 235 240
Glu Thr Ser Asp Gln Gln Leu Asn Gln Ser Met Asp Thr Gly Ser Pro
245 250 255
Ala Glu Leu Ser Pro Thr Thr Leu Ser Pro Val Asn His Ser Leu Asp
260 265 270
Leu Gln Pro Val Thr Tyr Ser Glu Pro Ala Phe Trp Cys Ser Ile Ala
275 280 285
Tyr Tyr Glu Leu Asn Gln Arg Val Gly Glu Thr Phe His Ala Ser Gln
290 295 300
Pro Ser Leu Thr Val Asp Gly Phe Thr Asp Pro Ser Asn Ser Glu Arg
305 310 315 320
Phe Cys Leu Gly Leu Leu Ser Asn Val Asn Arg Asn Ala Thr Val Glu
325 330 335
Met Thr Arg Arg His Ile Gly Arg Gly Val Arg Leu Tyr Tyr Ile Gly
340 345 350
Gly Glu Val Phe Ala Glu Cys Leu Ser Asp Ser Ala Ile Phe Val Gln
355 360 365
Ser Pro Asn Cys Asn Gln Arg Tyr Gly Trp His Pro Ala Thr Val Cys
370 375 380
Lys Ile Pro Pro Gly Cys Asn Leu Lys Ile Phe Asn Asn Gln Glu Phe
385 390 395 400
Ala Ala Leu Leu Ala Gln Ser Val Asn Gln Gly Phe Glu Ala Val Tyr
405 410 415
Gln Leu Thr Arg Met Cys Thr Ile Arg Met Ser Phe Val Lys Gly Trp
420 425 430
Gly Ala Glu Tyr Arg Arg Gln Thr Val Thr Ser Thr Pro Cys Trp Ile
435 440 445
Glu Leu His Leu Asn Gly Pro Leu Gln Trp Leu Asp Lys Val Leu Thr
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Gln Met Gly Ser Pro Ser Val Arg Cys Ser Ser Met Ser
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 <213> Xenopus laevis

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 Tyr Glu Ser Val Glu Pro Pro Ser Leu Ala Leu Leu Ser Ser Ile Asp
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 35 40 45
 Gln Pro Trp Pro Gln Pro Trp Pro Pro Leu Ser Leu Tyr Arg Glu Gly
 50 55 60
 Gly Thr Trp Ser Pro Asp Arg Gly Ser Met Tyr Gly Leu Ser Pro Gly
 65 70 75 80
 Thr His Glu Gly Ser Cys Thr His Thr His Glu Gly Pro Lys Asp Ser
 85 90 95
 Met Ala Gly Asp His Thr Arg Ser Arg Lys Ser Lys Lys Lys Asn Tyr
 100 105 110
 His Arg Tyr Tyr Lys Pro Pro Tyr Ser Tyr Leu Ala Met Ile Ala Leu
 115 120 125
 Val Ile Gln Asn Ser Pro Glu Lys Arg Leu Lys Leu Ser Gln Ile Leu
 130 135 140
 Lys Glu Val Ser Thr Leu Phe Pro Phe Phe Asn Gly Asp Tyr Met Gly
 145 150 155 160
 Trp Lys Asp Ser Ile Arg His Asn Leu Ser Ser Ser Asp Cys Phe Lys
 165 170 175
 Lys Ile Leu Lys Asp Pro Gly Lys Pro Gln Ala Lys Gly Asn Phe Trp
 180 185 190
 Thr Val Asp Val Ser Arg Ile Pro Leu Asp Ala Met Lys Leu Gln Asn
 195 200 205
 Thr Ala Leu Thr Arg Gly Gly Ser Asp Tyr Phe Val Gln Asp Leu Ala
 210 215 220
 Pro Tyr Ile Leu His Asn Tyr Lys Tyr Glu His Asn Ala Gly Ala Tyr
 225 230 235 240
 Gly His Gln Met Pro Pro Ser His Ala Arg Ser Leu Ser Leu Ala Glu
 245 250 255
 Asp Ser Gln Gln Thr Asn Thr Gly Gly Lys Leu Asn Thr Ser Phe Met
 260 265 270
 Ile Asp Ser Leu Leu His Asp Leu Gln Glu Val Asp Leu Pro Asp Ala
 275 280 285
 Ser Arg Asn Leu Glu Asn Gln Arg Ile Ser Pro Ala Val Ala Met Asn
 290 295 300
 Asn Met Trp Ser Ser Ala Pro Leu Leu Tyr Thr His Ser Lys Pro Thr
 305 310 315 320
 Arg Asn Ala Arg Ser Pro Gly Leu Ser Thr Ile His Ser Thr Tyr Ser
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[illegible]